

ABSTRACT

A magnetic suspension bearing located between the spindle and stator of a rotational device includes stator magnetic units mounted on the top side and bottom side of the stator and spindle magnetic units, which are mounted on two ends of the spindle. One
5 end of the spindle has a loading section to support the spindle. The stator magnetic units and the spindle magnetic units generate a repulsive magnetic force to separate the spindle and stator from one another at a selected distance to avoid vibration and noise caused by obliquity and to increase the service life of products.

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